

# ePIC SIDIS PWG Meeting May 28, 2024



**Conveners:** Charlotte Van Hulse (U Alcala),  
Stefan Diehl (JLU Giessen and UConn)

**Wiki of the SIDIS PWG:** <https://wiki.bnl.gov/EPIC/index.php?title=SIDIS>

**PWG meetings:** Tuesday 2.30 pm (~ every 2 weeks)



# SIDIS Working Group

## Announcement from the software group: PID implementation in the MC

- PID lookup tables have been implemented in the May simulation campaign
- Details can be found under:

[https://indico.bnl.gov/event/23065/contributions/90375/attachments/53991/93613/pid\\_lut.pdf](https://indico.bnl.gov/event/23065/contributions/90375/attachments/53991/93613/pid_lut.pdf)

- » LUT PID is the new default
- » Randomized value (see the original spec) stored to `edm4eic::ReconstructedParticle::PDG` field
- » Each lookup step will overwrite the randomized value if LUT entry is found
- » All found probabilities are stored in the `edm4eic::ReconstructedParticle::particleIDUsed` relation
- » `edm4hep::ParticleID::type` stores which detector's LUT table the values came from

- ➔ Check the impact of the more realistic PID on your analysis!
- ➔ Tests of the new PID have been requested for the next joint meeting of the Physics WGs and Software & Computing on June 26